MYCOLOGICAL EXSICCATA FROM BORNEO, COLLECTED BY ODOARDO BECCARI, KEPT IN THE HERBARIUM CESATIANUM (RO)

Laura ZUCCONI

Università della Tuscia, Facoltà di Scienze MMFFNN, Via San Camillo de Lellis, 01100 Viterbo, Italy.

ABSTRACT - The extensive mycological exsecata collected by O. Beccari in Borneo and studied by V. Cesati is deposited in the Herbarium of the Dipartimento di Biologia Vegetale, Città Universitaria, Rome (RO). A complete list of these species in provided with an indication of their presence in the Cesati Herbarium.

RÉSUMÉ - Les nombreux exsiccata mycologiques récoltés à Bornéo par O. Beccari et étudiés par V. Cesati, sont déposés dans l'Herbier du département de Biologie végétale, cité universitaire, Rome (RO). On donne la liste compléte de ces espèces avec indication de leur présence dans l'Herbier de Cesati.

KEY WORDS: Borneo, fungi, O. Beccari, V. Cesati, herbarium.

A study of the mycological section of the Herbarium of Vincenzo Cesati (1806-1883), preserved at the Herbarium of the Dipartimento di Biologia Vegetale, Città Universitaria, Rome (RO) (Zucconi, 1989), enabled the location of a considerable amount of mycological exsiccata that Odoardo Beccari (1843-1920) collected in the South-Eastern Asia and presented to Cesati for study. The uniqueness of the exsiccata present in the Herbarium of Rome has been confirmed by a visit at the Herbarium Universitatis Florentinae (FI), where the whole Beccari collection is kept. In 1879 this mycological material appeared in a Cesati work entitled Mycetum in itinere Borneensi Lectorum a Cl. Od. Beccari Enumeratio.

The label of each specimen presents the name of the collector, the place of collection, the determination and, though not always, the date of the collection. There are often some original drawings, descriptions and notes handwritten by Cesati.

In the present paper are reported, following the order of publication, all the species studied by Cesati and for each one, the presence or absence of the relative specimen in the Herbarium is indicated. The presence of the specimens with more than one determination is indicated as uncertain. Finally, those specimens studied and indicated as types by scholars are also pointed out. This material has not been the subject, in this work, of any systematic and taxonomic investigation.

In the Cesati publication there are reported three new genera and more than 300 species, with numerous varieties; the three new genera and many of the new species described are found in the Herbarium.

The aim of this work is to inform taxonomists about the presence or absence of some specimens, making the search easier and promoting their study.

MYCETUM IN ITINERE BORNEENSI LECTORUM A CL. OD, BECCARI ENUMERATIO

HYMENOMYCETES

Agaricus (Tricholoma) sub-gambosus Nob. / Absent

A. (Clitopilus?) orcellarius Nob. / Absent

A. (Pleurotus) semisupinus Berk. & Br. / Present

A. (Omphalia) micromeles Berk. & Br. / Present

A. (Flammula) paupercula Nob. &\$3Present

A. (Naucoria) myosotis Fr. J Absent

A. (Crepidotus) mollis Schaeff. / Present

A. (Crepidotus) proteus Kalchbr. / Absent A. (Crepidotus) flavomarginatus Berk. & Br. / Present

A. (Crepidotus) pezizula Berk. & Br. | Absent A. (Panaeolus) papilionaceus Bull. ? | Absent Marasmius (Collybia) oreades Fr. ? | Absent

M. (Mycena) galericula Nob. / Present M. (Mycena) arachnoideus B. & C. / Present

ANTHRACOPHYLLUM Nob. n. gen.

A. beccarianum Nob. / Present / holotype (Pegler & Young, 1989)

Heliomyces pauciradiatus Nob. J Absent

Cantharellus bicolor Nob. 1 Present

Panus copulatus Ehrbg. / Present

Lentinus dactyliophorus Lev. / Present

L. glandulosus Nob. / Present

L. beccarianus Nob. / Present

L. setiger Lev. / Present

L. leucochrous Lev. / Present.

Xerotus ? dasypus Nob. / Present

Lenzites brunneola Berk, J Present

L. repanda Fr. / Absent

Beletus (Viscipellis) longicollis Nob. / Absent

B. (Viscipellis) subtomentosus L. ? / Absent B. (Calopus Recedens) mandarinus Nob. / Absent

Polyporus (Pleuropus) amboinensis Fr. J Present

P. (Pleuropus) mastoporus Lev. / Present

P. (Pleuropus) lingua Nees / Present

P. (Pleuropus) beccarianus Nob. / Absent

P. (Pleuropus) rhipidius Berk. / Uncertain

P. (Pleuropus) eriopus Nob. / Absent

P. (Pleuropus) polychrous Nob.

I. Forma mesopoda / Present

II. Forma pleuropoda

1. var. rufo-auraia / Present

2. var. pallida / Present

P. (Pleuropus) flabelliformis Klotschz / Present; var. glabrata concolor / Present

P. (Pleuropus) grammocephalus Berk. J Present; cum varietate fuscescenti, attenuata, petalode / Uncertain

P. (Pleuropus) incompletus Nob. / Present

P. (Pleuropus) squamaeformis Berk. J Present

P. (Placodermeus) piceus Nob. / Absent

P. (Placodermeus) ungularus Bull. / Absent P. (Placodermeus) fulvus Fr. / Absent

P. (Placodermeus) rufo-flavus B. & C. J Present P. (Placodermeus) semitostus Berk. Forma resupinata / Present P. (Placodermeus) bubidus Berk. ? / Absent P. (Placodermeus) aurora Nob. / Present P. (Placodermeus) caliginosus Nob. / Present
P. (Placodermeus) caliginosus Nob. / Present
P. (Placodermeus) pusiolus Nob. / Present
P. (Placodermeus) sanguinarius Kl. / Present
P. (Placodermeus) melanoporoides Nob. / Absent (Placodermeus) zonalis Berk, forma resupinata / Present (Placodermeus) crocitinctus B. & C. / Present P. (Inodermeus) caesiellus Nob. 1 Absent P. (Inodermeus) dermatodes Lév. 1 Present P. (Inodermeus) zonatus Fr. / Present / cum var. pygmaea / Present P. (Inodermeus) confundens Nob. / Uncertain P. (Inodermeus) paradeniae B. & Br.! / Absent P. (Inodermeus) bivalvis Pers. / Present P. (Inodermeus) personatus B. & Br.! / Present P. (Inodermeus) vilis Nob. / Present P. (Inodermeus) hirsutus Fr. / Present P. (Inodermeus) velutinus Fr. / Absent P. (Inodermeus) masskarlii Lev. J Absent P. (Resupinatus) ravenalae B. & Br. 1/ Present P. (Resupinatus) luctuosus Nob. / Present P. (Resupinatus) cinerascens Schw. / Present P. (Resupinatus) sarawacensis Berk. / Present Daedalea lenzitiformis Nob. J Absent D. platypoda Lév. ? / Absemt D. sanguinea Kl. / Present D. imponens Nob. / Present / holotype (Parmasto, 1983) D. pruinosa Lev. / Present D. ? velutina Nob. / Present Trametes colliculosa Berk. / Absent T. ludificans Nob. / Present T. versatilis Berk. / Present Hexagonia subaculeata Nob. J Present H. polygramma Mont. / Present II. vitellina Nob. / Present II. cesatii Berk. / Present Favolus (Mesopus) cillario Mont. / Present F. (Pleuropus) tesselanis Mont. / Present F. (Pleuropus) scaber Berk. / Present / var. fusca Nob. / Present F. (Pleuropus) scaber Berk, var. caespitosa / Absent F. (Apus) papulosus Nob. / Present F. (Apus) auriculaeformis Nob. J Absent F. (Apus) cucullatus Mont. / Present F. (Apus) transiens Nob. J Present Cyclomyces beccarianus Nob. / Present Laschia lurida Nob. / Present Merulius similis B. & Br. ? / Present M. crocicreas Nob. / Present Hydnum (Mesopus) ferrugineum Fr. / Present 11. (Apus) ravakense Pers. / Present B. (Resupinatum) glabrescens Berk. & Rav. ? / Present 11. (Resupinatum) cesati Berk. / Present Irpex (Resupinatus) depauperatus B. & Br. J Uncertain Grandinia crustosa Pers. / Present G. (Apus) glabrescens B. & Rav. / Absent Odontia i farinacea Nob. / Present Radulum mirabile B. & Br. ? / Absent

BECCARIELLA Nob. n. gen. B. insignis Nob. / Present Cladoderris dendritica (Pers.) Berk. / Present Craterellus spathularius Bork. & Curtis / Absent

C. cornucopioides Pers. / Present C. hypolyssoides Nob. / Present

Telephora multipartita Fr. / var. fuscella - Present / var. soluta - Present / var. isarioides. sterilis - Absent

Stereum (Mesopus) spathulatum Berk, / Present

S. (Apus) berkeleyanum Nob. / Absent

S. (Apus) rubiginosum Fr. / Uncertain

S. (Apus) ochraceo-flavum Ellis / Absent

S. (Apus) ochroleucum Ft. / Present S. (Apus) ferrugineum Ft. ? / Present

Auricularia sordescens Nob. / Present

Auricularia & An A. lobata Sommf. ? / Absent

Hymenochaete depallens B. & Br. / Present

Corticium (Himantia) lacteum Fr. / Absent

C. berkeleyanum Nob. J Absent

C. peradeniae B. & Br. / Present Hypochnus ruberrimus Nob. / Present

Guepina spathularia Fr. / Present

G. fissa Berk. J Absent

G. palmiceps Berk. I.c. / Present

Guepina sp. n. ? / Present

Clavaria intricata Nob. / Present

C. thwaitesii Berk, & Br. / Present

Hirneola hispidula Berk, J Present Dacrymyces varius Nob. J Present

DISCOMYCETES

Peziza (Discina) sarmenterum B. & Br. / Present

P. (Geopyxis) hindsii Berk, var. beccariana Nob. I Absent

P. (Geopyxis) crocina Mont. J Absent

P. (Helotium) lenticularis Bull. J Absent

P. (Helotium) epiphylla Pers. J Absent

P. (Niptera) cinerea Batsch. / Absent

P. (Dasyscypha) simillima B. & Br. / Present

Helotium agaricicola 1. & Br. ? / Absent

Cyphella scariosa Nob. / Absent

Ascobolus leiocarpus B. & Br. J Present

Ascobolus sp. / Absent

A. cenangioides Nob. J Absent Patellaria ? Tympanis? J Absent Tympanis vermicularis Nob. J Present

GASTEROMYCETES

Hymenophallus indusiarus Cda. / Present

H. roseus Nob. / Absent

Mutinus? borneensis Nob. / Absent

Splanchnomyces luteus Cda. &\$3 Present

Cyathus byssisedus (Jungh.) Tul. / Present

Tulostoma pusillum Berk.? / Present

Lycoperdon pusillum Bull, J Absent

L. scrobicularum Nob. J Present

Scleroderma columnare B. & Br. / Absent

S. anomalum Nob. / Absent

Stegasma pallidum Nob. / Present

Geaster minimus Schw. / Absent

Husseia insignis Berk. J Present

H. pachystelis Nob. / Absent

Mitremyces junghuhnii Schldl. & Müll. / Present

Trichocoma paradoxum Jungh. / Present

Lycogala? / Absent

Arcyria punicea Pers. / Present

Enteromyxa cerebrina Nob. J Present

PHACIDIACEL

Phacidium dentatum Fr. / Present Hypoderma pusillum Nob. J Present

Lophodermium sp. / Absent

Angelina beccariana Nob. &S3Present

Hysterium serpens Nob. / Present

11. berkeleyanum Nob. / Present

Aylographum vagum Lib. / Present

A. spilomoide Nob. J. Present

PYRENOMYCETES

Torrubia myrmecophila (Ces.) Tul. J Absent

T. gentilis Nob. / Present

T. ophioglossoides (Ehrh.) Tul. / Present

T. barnesii (Thw.) Nob. / Present T. adpropinguans Nob. / Absent T. militaris (Fl. Dan.) Tul. / Absent

Hypocrea rhytidospora Nob. / Present H. gelatinosa cum var. umbrina Fr. / Uncertain

II. rufa Fr. / Present II. scutula Cooke / Present

Poronia oedipus Mont. / Present

Sphaerostilbe incerta Nob. / Present / holotype (Seifert, 1985)

Nectria tabacina Nob. J Present

N. haematococca B. & Br. ? / Absent

N. cinnabarina Fr. / Present N. sanguinea Fr. ? / Present

N. myriadea Nob. J Absent

N. coccinea Fr. / Present

Xylaria massula Nob. / Present

X. rhizomorpha Mont. / Present

X. acicula Nob. / Present

X. aristata Mont. J Present

X. phyllophyla Nob. J Absent

Xylaria An A. Phyllocharis Mont. ? J Present

X. axifera Mont. ? / Present X. dichotoma Kze. / Present

X. caespitulosa Nob. / Present

X. scopiformis (Kze) Fr. var. eliator / Present

X. rhizocola Mont. / Absent

X. exalbata B. & Br. J Present

X. gigantea (Zipp. mss. Lev.) Nob. / Present

X. allantoidea Berk. / Present X. intermedia Nob. / Present

X. plebeja Nob. J Absent

X. complanata Nob. / Present

X. hypoxylon var. mucronata Berk. ? / Present

X. polymorpha Grev. / Present

X. fissilis Nob. / Present

X. rhopaloides (Mont.) Berk. ! / Present

X. gardneri Berk. / Present

X. melanaxis Nob. J Present

X. guepini Fr. / Present

X. corniformis Fr. J Present

X. cupressiformis Fr. / Present

Hypoxylon chalybaeum Berk! a) typica b) congesta c) minor / Uncertain

II. microsporum Nob. / Present

II. pseudo-tubulina Nob. J Present

H. marginatum Schw. / Present

II. stigmoideum Nob. / Present

H. glebulosum Nob. / Present

11. serpens Fr. / Present

II. approximans Nob. / Present

D. phaselina Berk. / Present
D. graminis Fr. ? / Present
D. membranacea Nob. / Present

H. avellana Nob. / Present H. fragaria Nob. J Present H. coenopus Fr. cum var. apoda Berk. / Present H. pavimentosum Nob. / Present H. pauxillum Nob. / Present H. clavus Fr. / Present H. micropus Fr. / Present H. deustum Fr. J Present II. cohaerens Fr. var. tenuior / Absent II. coelatum Fr. / Present II. macrocenangium Nob. / Present / holotypus (Nannfeldt, 1972) H. comedens Nob. J Present H. udum Fr. / Present H. deciduum B. & Br. / Present 11. termentosum Nob. / Present II. pithodes Berk. / Present II. anthracodes Mont. / Uncertain II. ? gangraena Nob. / Present Hypomyces chromaticus Berk. ? / Absent Valsa ceratophora Tul. ? / Uncertain V. assimilis Nob. / Present Melogramma cinnamomi Nob. / Present Cucurbitaria insularis Nob. / Present Aglaospora beccariana Nob. J Present Sphaeria beccariana Nob. J Present S. scabiens Nob. / Absent S. leveilliei Mont. ? / Absent S. bombardella Nob. / Present S. alvear Nob. / Present S. macrostomella Nob. / Present S. arundinacea Sow. / Present S. sarawacensis Nob. / Present S. regulina B. & Br. ? / Present S. tingens Nob. / Present Amphisphaeria beccariana Nob. J Present A. enteroxantha Nob. / Absent Gibbera borneensis Nob. / Present Bombardia bertioides Nob. J Present Rosellinia nitens Nob. / Absent R. spadicea Nob. / Present R. hypoxylina Nob. J Present R. mammaeformis CD.ris? / Present R. ignobilis Nob. / Absent R. beccariana Nob. / Present Sordaria pachydermatica Nob. / Present S. microspora Nob. / Present S. grisea Nob. / Present / holotypus: from a revision of Lundqvist, in 1977, reported on the label S. sarawacensis Nob. / Present / lectotypus: from a revision of Lundqvist, in 1977, reported on the label S. punctiformis Nob. / Present / type: from a revision of Lundqvist, in 1977, reported on the label S. caulicola Nob. / Present S. oblectans Nob. / Present Rhaphidospora exilis Nob. / Present R. hystrix Nob. / Present Sphaerella plegmariae Nob. / Present Sphaeropsis undulata B. & C. ? forma pycnidica ? / Present Dothidea oceanica Nob. / Present

D. hysteriodes Nob. / Present Sporormia minima Awd. J. Present Diplodia radula B. & Br. / Present Sphaeronema? aurantiacum Nob. / Present Phoma orchidearum Nob. / Absent P. arundinaceum Nob. / Absent P. aequivocum Nob. J Absent Discosia (incerta) / Absent Meliola triseptata B. & Br. ? / Absent M. amphitriche Fr. ? / Uncertain Rhytisma pongamiae B. & Br. / Present / cum varietate peritheciis dispersis / Present R. berkeleyanum Nob. / Present

Melanconium melanoxanthum B. & Br. / Present / var. major / Present

Pemphidium coffeinum Nob. / Present

HYPHOMYCETES

Stilbum graphioideum B. & Br. ? / Present S. clavulatum Nob. / Absent Arthrobotryon beccarianum Nob. / Present Cladosporium occultum Nob. / Present Helminthosporium decorum Nob. / Present Chloridium? lunulatum Nob. / Present C. ? microsporum Nob. J Absent Merosporium velutinum Nob. / Present Sporidesmium erineoides Nob. / Present

S. cirrhatum Nob. J Present CONIOMYCETES

Aecidium sarawacense Nob. J Present A. fragiforme Nob. / Absent Ceratitium phaeosporum Nob. / Absent Ustilago endothricha Berk. J Present U. leucoderma Berk. / Present

APPENDIX

XEROMYCES Nob. (Gen. nov.)

X. ochraceus Nob. / Present / holotype: from a revision of Bresadola, in 1910, reported on the label

Sclerotium glumale Nob. J Absent

S. lingulatum Nob. / Present

S. hypocreaemorphum Nob. / Present

S. rhachidophilum Nob. / Present

S. enterophaeum Nob. / Present

Other species not listed by Cesati:

Grammothele mappa B. & C.? Gymnosporium circumscissum B. & Br. Hypocrea citrina Ft. Nectria sp. Polyporus sanguineo-marginate Ces. Xylaria rudis Ces.

X. tabacina Berk.

Xylaria sp.

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